

Notice of Allowability

Application No.

10/767,248

Applicant(s)

TRAN ET AL.

Examiner

Khai M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/4/2007.
2. ☒ The allowed claim(s) is/are 2-4, 7-23, and 25-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>1/29/2007</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Andrew Schwaab on January 29, 2007.

The application has been amended as follows:

Claim 13, **line 3**, the word "current" has been added after the word "switchable" and **line 8**, "the compensation" has been replaced by "a compensation".

2. Claims 2-4, 7-23, and 25-27 are allowed.

With respect to claims 2-3, the references of record fail to teach or suggest the recited amplifier system that includes operational amplifiers each having inputs, wherein each of the amplifiers has a first input, the first input of one of the operational amplifiers being coupled to a first node, the first inputs of at least two others of the operational amplifiers being coupled to a second node which is different than the first node; and a controller configured to interconnect the inputs of the operational amplifiers to form an adaptive input range system.

With respect to claims 4 and 25, the references of record fail to teach or suggest the recited amplifier system that includes operational amplifiers each having inputs, wherein each of the operational amplifiers comprises a compensation network, and an

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output of one the operational amplifiers is coupled to an input of a compensation network of at least one other of the operational amplifiers; and a controller configured to interconnect the inputs of the operational amplifiers to form an adaptive input range system.

With respect to claim 7, the references of record fail to teach or suggest the recited limitations including the first, second, third operational amplifiers, and controller configured to adaptively interconnect the inputs.

With respect to claim 8, the references of record fail to teach or suggest the recited limitations including the first and second operational amplifiers, wherein the first operational amplifier having an input formed of a NZ NMOS transistor and of an n-type NMOS transistor, and controller configured to adaptively interconnect inputs of the first and second operational amplifiers.

With respect to claims 9 and 26, the references of record fail to teach or suggest the recited limitations including: one of the operational amplifiers having a fixed bias; another of the operational amplifiers having an adaptively switchable current bias; and the controller configured to select the switchable current bias.

With respect to claims 10, 11, 12, and 27, the references of record fail to teach or suggest the recited combinations including: one of the operational amplifiers having a switchable bias; another of the operational amplifiers having a switchable current bias; and the controller configured to select the switchable bias or switchable current bias.

With respect to claim 13, the references of record fail to teach or suggest the recited limitations including: one of the operational amplifiers having a switchable bias;

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another of the operational amplifiers having a switchable current bias; and the controller configured to select the switchable bias or switchable current bias.

With respect to claims 14-18, the references of record fail to teach or suggest the recited limitations including the first, second, third operational amplifiers, and the controller configured to interconnect the operational amplifiers.

With respect to claims 19-23, the references of record also fail to teach or suggest the recited combinations including the first, second, third operational amplifiers each of which configured as an output of transconductance amplifier, and the controller that interconnects the first, second, and third operational amplifiers.

For these reasons, claims 2-4, 7-23, and 25-27 are allowed.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford (Rex) Barnie can be reached on 571-272-7492. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



January 29, 2007

Khai M. Nguyen
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571-272-1809